

CLAIMS

What is claimed is:

1. A spring suspension speaker comprising:
 - a back plate with a raised axle;
 - a permanent magnet mounted on top of the back plate around the raised axle;
 - a front plate enclosing the permanent magnet around the raised axle;
 - a voice coil attached to the top of the raised axle;
 - a terminal electrically connected to the voice coil;
 - a cone with a top and bottom attached to the top of the voice coil;
 - a surround attached to the top of the cone on one side and attached to a gasket on the other side;
 - a spider attached to the bottom of the cone on one side and to a basket on the other side;
 - a dustcap covering the top of the cone; and
 - a flexible support member supporting the cone;wherein the flexible support member will greatly reduce the stress on the spider and the surround by providing additional support to the cone.
2. A spring suspension speaker according to claim 1, wherein said flexible support member is a spring placed between the back plate and the dustcap.
3. A spring suspension speaker according to claim 1, wherein said flexible support member is an air pump placed between the back plate and the dustcap.
4. A spring suspension speaker according to claim 1, wherein said flexible support member is a spring between the basket and the cone.

5. A spring suspension speaker according to claim 1, wherein said flexible support member is an air pump placed between the basket and the cone.

6. A spring suspension speaker comprising a speaker and a flexible support member, wherein the improvement comprises of inserting a flexible support member to support the cone.

7. A spring suspension speaker according to claim 6, wherein said flexible support member is a spring inserted between the backplate and the dust cap of the speaker.

8. A spring suspension speaker according to claim 6, wherein said flexible support member is an air pump inserted between the backplate and the dust cap of the speaker.

9. A spring suspension speaker according to claim 6, wherein said flexible support member is a spring between the basket and the cone.

10. A spring suspension speaker according to claim 6, wherein said flexible support member is an air pump placed between the basket and the cone.